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What is claimed is:

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	1.	A flexible electrode antenna comprising:
		a layer of conductive material;
5		a layer of flame retardant material adhered to a first side of the layer of conductive
		material; and
		a layer of protective material adhered to a second side of the layer of conductive
		material.

- The flexible electrical antenna of Claim 1, wherein the layer of conductive material is comprised of a layer of copper between two layers of nickel.
 - 3. The flexible electrical antenna of Claim 2, wherein the layer of copper has a thickness in the range of 2000 to 3000 angstroms.
 - 4. The flexible electrical antenna of Claim 3, wherein the layer of copper has a thickness of about 2500 angstroms.
- 5. The flexible electrical antenna of Claim 2, wherein the layers of nickel have a thickness in the range of 250 to 600 angstroms.
 - 6. The flexible electrical antenna of Claim 5, wherein the layers of nickel have a thickness of about 400 angstroms.
- 7. The flexible electrical antenna of Claim 1, wherein the layer of conductive material comprises a layer of nickel.
 - 8. The flexible electrical antenna of Claim 1, wherein the layer of conductive material comprises a layer conductive non-woven material.
 - 9. The flexible electrical antenna of Claim 1, wherein the layer of conductive material comprises a layer conductive woven material

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10. The flexible electrical antenna of Claim 1, wherein the layer of conductive material is comprised of a polymer substrate having a metalized layer on a first major surface of the substrate.

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- 11. The flexible electrical antenna of Claim 10, wherein the metalized layer on the first major surface of the polymer substrate comprises a layer of nickel.
- The flexible electrical antenna of Claim 10, wherein the metalized layer on the first major surface of the polymer substrate comprises layers of nickel and copper.
 - 13. The flexible electrical antenna of Claim 1, wherein the flame retardant layer is glass cloth.
- 15 14. The flexible electrical antenna of Claim 13, wherein the glass cloth is formed of blown glass fibers.
 - 15. The flexible electrical antenna of Claim 1, wherein the protective material is a non-woven material.

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- 16. The flexible electrical antenna of Claim 15, wherein the protective material is a non-woven PET.
- 17. The flexible electrical antenna of claim 13, wherein the antenna has a tear resistance value using test standard ASTM D 1004-94A in the range from 8.0 to 11.6 pounds in the machine direction.
 - 18. The flexible electrical antenna of claim 13, wherein the antenna has a tear resistance value using test standard ASTM D 1004-94A in the range from 9.7 to 20.7 pounds in the cross direction.